

ENGINEERING STATEMENT

The engineering data contained herein have been prepared on behalf of VENTURE TECHNOLOGIES GROUP, LLC, licensee of Class A digital television station KHTV-CD, Channel 27 in Los Angeles, California, in support of its Application for Construction Permit to specify operation on its post-repack channel, Channel 22. No change in site location, antenna azimuth pattern or antenna height is proposed herein.

It is proposed to mount a new Dielectric elliptically-polarized directional antenna at the 25-meter level of the existing 61-meter KHTV-CD tower. The proposed effective radiated power for the facility is 7.24 kW, which is the allotted repack power level for KHTV-CD. Exhibit B is a map upon which the predicted 51 dBu service contour is plotted.

Elevation and azimuth pattern data for the proposed Dielectric directional antenna appear in Exhibit C. It is important to note that the azimuth pattern of the proposed antenna is identical to that of the present KHTV-CD antenna. Since the facility proposed herein specifies the exact repack allotment facility assigned to KHTV-CD, no interference study is included herein. A detailed power density calculation is provided in Exhibit D.

Since no change in the overall height or location of the existing KHTV-DT tower is proposed herein, the Federal Aviation Administration has not been notified of this application. In addition, the Federal Communications Commission issued Antenna Structure Registration Number 1213941 to this tower.

EXHIBIT A

I declare under penalty of perjury that the foregoing statements and the attached exhibits, which were prepared by me or under my immediate supervision, are true and correct to the best of my knowledge and belief.

A handwritten signature in blue ink, appearing to read "K. T. Fisher". The signature is stylized with a large "K", a small "T", and a long horizontal line for the "F".

KEVIN T. FISHER

July 3, 2017

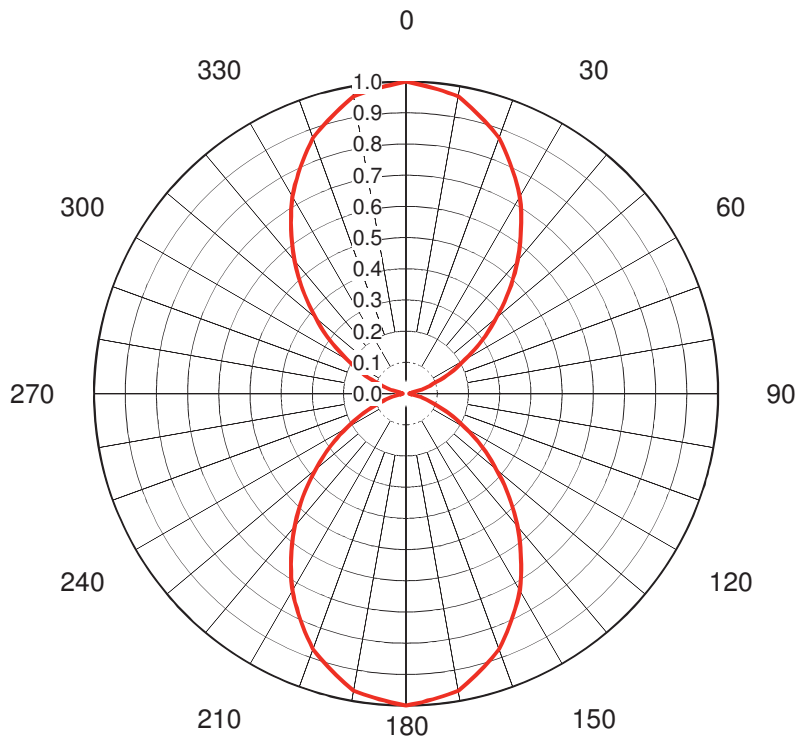
**CONTOUR POPULATION
2015 U.S. CENSUS DATA
11,350,238 (3,841,183 HH)**



**FCC 51 DBU
SERVICE CONTOUR**



**EXHIBIT B
PREDICTED SERVICE CONTOUR
PROPOSED KHTV-CD
CH. 22 - LOS ANGELES, CALIFORNIA**



AZIMUTH PATTERN Horizontal Polarization

In Free Space

Proposal No. **C-70918**
 Date **27-Jun-17**
 Call Letters **KHTV**
 Channel **22**
 Frequency **521 MHz**
 Antenna Type **TUL-P2 2/4 -K-1 SP**
 Gain **2.8 (4.47dB)**
 Calculated

Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value
0	1.000	36	0.625	72	0.079	108	0.079	144	0.625	180	1.000	216	0.625	252	0.079	288	0.079
1	0.997	37	0.608	73	0.072	109	0.087	145	0.642	181	0.997	217	0.608	253	0.072	289	0.087
2	0.993	38	0.591	74	0.065	110	0.094	146	0.660	182	0.993	218	0.591	254	0.065	290	0.094
3	0.990	39	0.573	75	0.058	111	0.106	147	0.677	183	0.990	219	0.573	255	0.058	291	0.106
4	0.987	40	0.556	76	0.050	112	0.119	148	0.694	184	0.987	220	0.556	256	0.050	292	0.119
5	0.984	41	0.538	77	0.043	113	0.131	149	0.712	185	0.984	221	0.538	257	0.043	293	0.131
6	0.980	42	0.520	78	0.036	114	0.144	150	0.729	186	0.980	222	0.520	258	0.036	294	0.144
7	0.977	43	0.503	79	0.028	115	0.156	151	0.743	187	0.977	223	0.503	259	0.028	295	0.156
8	0.974	44	0.485	80	0.021	116	0.168	152	0.758	188	0.974	224	0.485	260	0.021	296	0.168
9	0.970	45	0.467	81	0.020	117	0.181	153	0.772	189	0.970	225	0.467	261	0.020	297	0.181
10	0.967	46	0.449	82	0.019	118	0.193	154	0.786	190	0.967	226	0.449	262	0.019	298	0.193
11	0.957	47	0.431	83	0.018	119	0.206	155	0.800	191	0.957	227	0.431	263	0.018	299	0.206
12	0.948	48	0.414	84	0.017	120	0.218	156	0.815	192	0.948	228	0.414	264	0.017	300	0.218
13	0.938	49	0.396	85	0.015	121	0.234	157	0.829	193	0.938	229	0.396	265	0.015	301	0.234
14	0.929	50	0.378	86	0.014	122	0.250	158	0.843	194	0.929	230	0.378	266	0.014	302	0.250
15	0.919	51	0.362	87	0.013	123	0.266	159	0.858	195	0.919	231	0.362	267	0.013	303	0.266
16	0.910	52	0.346	88	0.012	124	0.282	160	0.872	196	0.910	232	0.346	268	0.012	304	0.282
17	0.900	53	0.330	89	0.011	125	0.298	161	0.882	197	0.900	233	0.330	269	0.011	305	0.298
18	0.891	54	0.314	90	0.010	126	0.314	162	0.891	198	0.891	234	0.314	270	0.010	306	0.314
19	0.882	55	0.298	91	0.011	127	0.330	163	0.900	199	0.882	235	0.298	271	0.011	307	0.330
20	0.872	56	0.282	92	0.012	128	0.346	164	0.910	200	0.872	236	0.282	272	0.012	308	0.346
21	0.858	57	0.266	93	0.013	129	0.362	165	0.919	201	0.858	237	0.266	273	0.013	309	0.362
22	0.843	58	0.250	94	0.014	130	0.378	166	0.929	202	0.843	238	0.250	274	0.014	310	0.378
23	0.829	59	0.234	95	0.015	131	0.396	167	0.938	203	0.829	239	0.234	275	0.015	311	0.396
24	0.815	60	0.218	96	0.017	132	0.414	168	0.948	204	0.815	240	0.218	276	0.017	312	0.414
25	0.800	61	0.206	97	0.018	133	0.431	169	0.957	205	0.800	241	0.206	277	0.018	313	0.431
26	0.786	62	0.193	98	0.019	134	0.449	170	0.967	206	0.786	242	0.193	278	0.019	314	0.449
27	0.772	63	0.181	99	0.020	135	0.467	171	0.970	207	0.772	243	0.181	279	0.020	315	0.467
28	0.758	64	0.168	100	0.021	136	0.485	172	0.974	208	0.758	244	0.168	280	0.021	316	0.485
29	0.743	65	0.156	101	0.028	137	0.503	173	0.977	209	0.743	245	0.156	281	0.028	317	0.503
30	0.729	66	0.144	102	0.036	138	0.520	174	0.980	210	0.729	246	0.144	282	0.036	318	0.520
31	0.712	67	0.131	103	0.043	139	0.538	175	0.984	211	0.712	247	0.131	283	0.043	319	0.538
32	0.694	68	0.119	104	0.050	140	0.556	176	0.987	212	0.694	248	0.119	284	0.050	320	0.556
33	0.677	69	0.106	105	0.058	141	0.573	177	0.990	213	0.677	249	0.106	285	0.058	321	0.573
34	0.660	70	0.094	106	0.065	142	0.591	178	0.993	214	0.660	250	0.094	286	0.065	322	0.591
35	0.642	71	0.087	107	0.072	143	0.608	179	0.997	215	0.642	251	0.087	287	0.072	323	0.608

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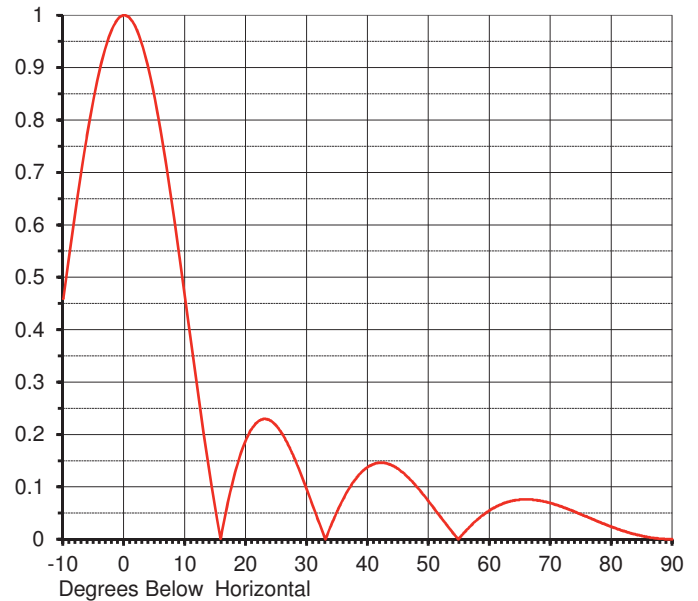
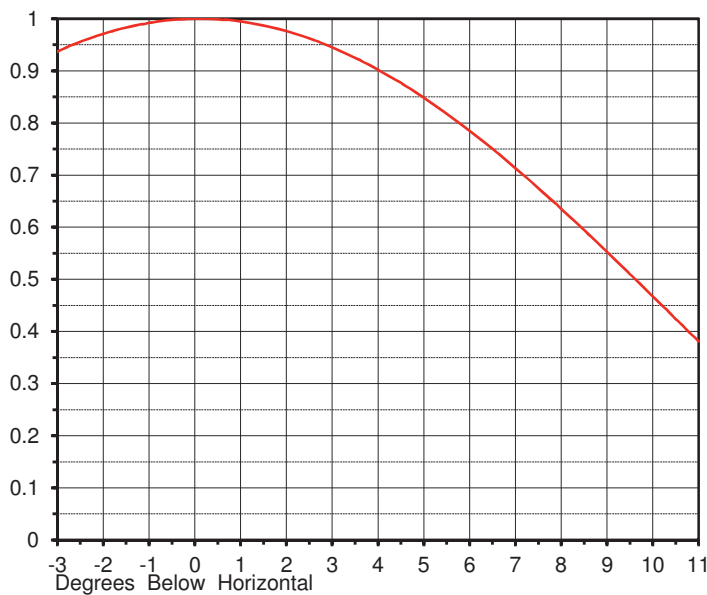
EXHIBIT C

ELEVATION PATTERN

Proposal No. **C-70918**
 Date **27-Jun-17**
 Call Letters **KHTV**
 Channel **22**
 Frequency **521 MHz**
 Antenna Type **TUL-P2 2/4 -K-1 SP**

RMS Directivity at Main Lobe **4.3 (6.29 dB)**
 RMS Directivity at Horizontal **4.3 (6.33 dB)**
Calculated

Beam Tilt **0.00 deg**
 Pattern Number **02U043000**



Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field
-10.0	0.459	10.0	0.459	30.0	0.094	50.0	0.072	70.0	0.069
-9.0	0.544	11.0	0.373	31.0	0.062	51.0	0.056	71.0	0.065
-8.0	0.627	12.0	0.287	32.0	0.031	52.0	0.041	72.0	0.061
-7.0	0.706	13.0	0.205	33.0	0.000	53.0	0.026	73.0	0.057
-6.0	0.778	14.0	0.126	34.0	0.028	54.0	0.011	74.0	0.052
-5.0	0.842	15.0	0.054	35.0	0.055	55.0	0.002	75.0	0.047
-4.0	0.897	16.0	0.012	36.0	0.078	56.0	0.015	76.0	0.043
-3.0	0.941	17.0	0.070	37.0	0.099	57.0	0.027	77.0	0.038
-2.0	0.974	18.0	0.119	38.0	0.115	58.0	0.038	78.0	0.033
-1.0	0.993	19.0	0.159	39.0	0.129	59.0	0.047	79.0	0.028
0.0	1.000	20.0	0.190	40.0	0.138	60.0	0.055	80.0	0.024
1.0	0.993	21.0	0.212	41.0	0.144	61.0	0.062	81.0	0.019
2.0	0.974	22.0	0.225	42.0	0.146	62.0	0.067	82.0	0.016
3.0	0.941	23.0	0.230	43.0	0.145	63.0	0.071	83.0	0.012
4.0	0.897	24.0	0.226	44.0	0.141	64.0	0.074	84.0	0.009
5.0	0.842	25.0	0.216	45.0	0.134	65.0	0.076	85.0	0.006
6.0	0.778	26.0	0.200	46.0	0.125	66.0	0.076	86.0	0.004
7.0	0.706	27.0	0.178	47.0	0.113	67.0	0.076	87.0	0.002
8.0	0.627	28.0	0.153	48.0	0.100	68.0	0.074	88.0	0.001
9.0	0.544	29.0	0.124	49.0	0.086	69.0	0.072	89.0	0.000
								90.0	0.000

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POWER DENSITY CALCULATION

PROPOSED KHTV-CD
CHANNEL 22 – LOS ANGELES, CALIFORNIA

Since the FCC considers the possible biological effects of RF transmissions in its environmental determinations, we have studied the matter with respect to this Los Angeles facility. Employing the methods set forth in *OET Bulletin No. 65* and considering a main-lobe effective radiated power of 7.24 kW (H,V), an antenna radiation center 25 meters above ground, and the specific elevation pattern of the proposed Dielectric antenna, maximum power density two meters above ground of 0.0087 mW/cm^2 is calculated to occur 26 meters north and south of the base of the tower. Since this is only 2.5 percent of the 0.35 mW/cm^2 reference for uncontrolled environments (areas with public access) surrounding a facility operating on Channel 22 (518-524 MHz), a grant of this proposal may be considered a minor environmental action with respect to public exposure to non-ionizing electromagnetic radiation.

Further, the station owner will take whatever precautionary steps are necessary, such as reducing power or leaving the air temporarily, to ensure that workers operating in the vicinity of the antenna are not exposed to excessive non-ionizing radiation.